2nd RA Bill

SBR No 000025/21-22 Original/Duplicate/Triplicate BR No : 000025/21-22

No, Date : 12/10/2021 CONTRACT CERTIFICATE (For Other Works) Date : 12/10/2021

Division: Electrical (DASARAHALLY) **job No** 015-20-000017 Date:

Head of Account :P 0300 M&R to Street lights - Replacement of Burnt bulbs etc Sub- Division:

Bill Received No.....Dated.....Cash Book Voucher No.....dated.....

Scheduled Docket Name of Work (as per sanctioned estimate) Operation and maintenance of street lights Package - D 4 Ward No 15 T Dasarahalli.

BILL Period:- 01-05-2021 to 30-06-2021 (2 month)

Contractor and Full Address:-M/s Manjunatha Electricals

Work Order No:- EE/(Elec)/DZ/TEND/WO/000007/2020-21 Dated :13-01-2021

Reference to Agreement Date .....

Certified that the measurements were taken by me on 2/7/21 and recorded of pages 365/366 to 366 of Measurement Book No 3 Stay and that the work is satisfactorily executed.

Contractor

Officer in charge of work

ASST. EXECUTIVE ENGINEER (Elec.) Bruhat Bangalore Mahanagara Palike Dasarahalli Zone, Bangalore

Certified that the measurements were taken by me on 02/7/2021 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in columns 3 of Account II have been actually brought to Site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in the connection with item for finished work have been agreed upon. And normal agreement signed and executed by the contractor is recorded in the office.

Previous bill : 262549=@

Sub-division Officer

ASST. EXECUTIVE ENGINEER Bruhat Bangalore Mahanagara Palike Dasarahalli Zone, Bangalore

II Memorandum of Payment

21)Total value of work done or supplies as per account within	Present bill: 149345=00
22)Deduct amount to be held in reserve being .....percent Rs.....	
23) Balance	
24)Deduct payment :	
i) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D.No.....	IT H. 1493=@
Amount adjusted towards cash advance recovery of	CGST 1333=@
j) Payments cost store or other material supplied.	SGST 1333=@
Now made recovery amount creditable to this/ other work	LWL H. 1493=@
	CBF. O.H. 149=@
Amount paid on this bill cheque/cash	Scrap 21. 2986=@
	Fine 6300=@
25)Balance being unpaid value of work done held in reserve	Total deduction 15087=@
6) Deduct cash advance made on the Office Cash Book Voucher No..... dated.....less adjustments	
7) Net amount due to or from contractor	Chq.amt. 134258=@
Unadjusted items	
8) Advance to contractor for materials brought to site (as detailed) within Value of Government materials supplied	

Contractors Signature

Received Rs.....(in words)

.....

by cash and adjustment of payment as per memorandum.

Witnesses :

1.

2.

Dated .....Signature of contractor

Paid by me by cheque No.....Dated .....

Cash Rs.....Dated.....

Initials of Officer making payment

Audited and admitted for Rs. 149345=00 134258=00

Passed by Cheque (For Use in the office)

Stamp

One lakh thirty four thousand and five hundred and fifty eight rupees only

by adjustment Rs. 15087/-

Accounts Superintendent

Executive Engineer (Elec)

B.B.M.P. Dasarahalli

Sl. No.	Description of Item	Unit	Previous Measurement Qty.	Previous Measurement Cost	Present Measurement Qty.	Present Measurement Rate Rs. P.	Present Measurement Amount	Total Upto Date Qty	Total Upto Date Cost	Remarks
	Name of work:-Operation and maintenance of street lights Package - 0 4 Ward No.15 Daserahat.		Previously paid so far	Months		2 Months		Upto Date paid so for 5 Months 16 Days		
1	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Igniters, Capacitors, Switches , wires, Holders, Starter and switching ON/OFF of street lights at specified timing and Pole numbering,Preparing ward wise , street wise data bank furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lighting system as detailed below. Poles with 36/40 W fluorescent tube light street lighting system.	Each	1 x 3 Months 16 Days	24672	201	74.54	14985.54	201 x 5 Months 16 Days	38827.97	
2	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Igniters, Capacitors, Switches , wires, Holders, Starter and switching ON/OFF of street lights at specified timing and Pole numbering,Preparing ward wise , street wise data bank furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lighting system as detailed below. Poles with 250W HPMH light street lighting system.	Each	1097 x 3 Months 16 Days	193872.43	1097	51.82	113893.05	1097 x 5 Months 16 Days	313985.51	
3	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Igniters, Capacitors, Switches , wires, Holders, Starter and switching ON/OFF of street lights at specified timing and Pole numbering,Preparing ward wise , street wise data bank furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lighting system as detailed below. Poles with 400 watts HPSV light street lighting system.	Each	x 3 Months 16 Days	7123.31	35	58.80	4091.76	35 x 5 Months 16 Days	11285.07	
4	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Igniters, Capacitors, Switches , wires, Holders, Starter and switching ON/OFF of street lights at specified timing and Pole numbering,Preparing ward wise , street wise data bank furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lighting system as detailed below Poles with 24 W LED light street lighting system.	Each	x 3 Months 16 Days	167.27	1	64.73	68.46	1 x 5 Months 16 Days	246.73	
5	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Igniters, Capacitors, Switches , wires, Holders, Starter and switching ON/OFF of street lights at specified timing and Pole numbering,Preparing ward wise , street wise data bank furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lighting system as detailed below Poles with 65 W LED light street lighting system.	Each	x 3 Months 16 Days	8803.15	97	58.82	11314.08	97 x 5 Months 16 Days	31204.23	
6	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Igniters, Capacitors, Switches , wires, Holders, Starter and switching ON/OFF of street lights at specified timing and Pole numbering,Preparing ward wise , street wise data bank furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lighting system as detailed below. Poles with 90 W LED light street lighting system.	Each	x 3 Months 16 Days	2482.25	10	70.00	1400.60	10 x 5 Months 16 Days	3882.85	
7	Operation and maintenance of Manual and Automatic Timer Switching circuits including replacement of electrical gadgets, such as MCB's Contactors, Timer, Cut outs, wiring connector and M.S. Box with proper insulation etc., complete		x 3 Months 16 Days	8351.91	15	168.36	4750.80	15 x 5 Months 16 Days	13102.71	
8	B Work to be carried at as per requirment & actuals and as per the directions of the in charge engineer Painting of existing Street lighting pole after scraping the old paint and painted with suitable colour enamel/silver paint including cooringbasting of the pole a) Upto 6 Mtrs light pole	Each	0	0.00	0	469.40	0.00	0	0.00	
9	Moulded Case Circuit Breaker (MCCB) three pole 100Amps 25kA.		0	0.00	0	1657.59	0.00	0	0.00	
10	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop In & Loop Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/ Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65/Weather Proof, rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic polyamide glands and/or grommets.200mmx200mmx99mm		0		0	1252.84	0.00	0		

	Thyristor based single/ Three phase smart street light control and monitoring system Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management,2.Precise lighting turnoff,3.Load ballancing,4.Load power regulation 5.Status tracking. It works on the basis of some of these features 1) Main Control Unit(Mother board): Handles controling data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit 3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4) Switching Thyristor: SCR 110 AMPS dual thyristor modules for switching 5) Embedded Firmware: Firmware to control , handle , process the data and communicate it wirelessly 6) Metal Enclosure : IP56 weather prof metal enclosure.7) Transformers: Customized step down transformers for various purposes.8) Wiring and other device assembly components							
	TOTAL	0	262549.32	0	31415.00	0.00	0	411894.78
	Add GST 12 % on item no 08 to 11		0.00			145345.46		0.00
	TOTAL Rs		262549.32			0.00		411894.78
	Fine imposed for non burning of street lights For the period of 01/8/2021 to 30/8/2021		16500.00			145345.46		411894.78
	As per street light agreement clause 2 % will be deducted in monthly maintenance bill against the released scrap material					6300.00		22800.00
	GRAND TOTAL		5230.99			2596.91		8237.90
			240798.33			140053.55		380856.88

Certificate

The above said monthly maintenance work has been carried out satisfactorily

JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore